

Abstract

The present invention discloses compounds of formula (1) any of its enantiomers or any mixture thereof, or a pharmaceutically acceptable salt thereof; wherein — is a single or a double bond; R is hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl or aralkyl; and R¹ is (a), wherein R² is hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, amino; or aryl which may be substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, cycloalkylalkyl nitro, aryl and a monocyclic 5 to 6-membered heteroaryl group; a monocyclic 5 to 6-membered heteroaryl group which may be substituted one or more times with substituents selected from the group consisting of alkyl, cycloalkyl, cycloalkylalkyl alkenyl, alkynyl, alkoxy, 6-membered heteroaryl group; or a bicyclic heteroaryl group composed of a monocyclic 5 to 6 membered heteroaryl group fused to a benzene ring or fused to another monocyclic 5 to 6-membered heteroaryl, all of which may be substituted one or more times with substituents methylenedioxy, aryloxy, halogen, CF₃, OCF₃, CN, amino, nitro, aryl and a monocyclic 5 to 6-membered heteroaryl group of the invention are useful as nicotinic ACh receptor ligands. The compounds

